



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
Environmental Sciences Center
701 Mapes Road
Fort Meade, Maryland 20755-5350

DATE : February 7, 2012

SUBJECT: Region III Data QA Review

FROM: Colleen Walling
Region III ESAT RPO (3EA20)

Colleen Walling

TO: Rich Fetzer
Remedial Project Manager (3HS31)

Attached is the organic data validation report for the Dimock Residential Groundwater site (Case #: 180-3644-01) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2763.

Attachment

TO: #0037 TDF: #02018A

cc: Gene Nance (Techlaw)
Suddha Graves (Techlaw)

OFFICE OF ANALYTICAL SERVICES AND QUALITY ASSURANCE

 Printed on 100% recycled/recyclable paper with 100% post-consumer fiber and process chlorine free.
Customer Service Hotline: 1-800-438-2474

Lockheed Martin IS&GS – Civil
Energy & Environment
ESAT Region 3
US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Telephone 410-305-3037 Facsimile 410-305-3597

DATE: February 7, 2012

SUBJECT: Organic Data Validation (Level M3)
Site: Dimock
PROJECT: 180-3644-1, SDG: H-1

FROM: **Ex. 4 - CBI**
Senior Data Reviewer

Ex. 4 - CBI
Senior Oversight Chemist

TO: Colleen Walling
ESAT Region 3 Project Officer

OVERVIEW

Project 180-3644-1, Sample Delivery Group (SDG) H-1, from the Dimock site consisted of eleven (11) and one (1) trip blank analyzed for compounds as listed below. All samples were submitted to TestAmerica Laboratories (TALP) for analysis. The sample set contained no field Quality Control (QC) samples. The samples were analyzed according to EPA methods as listed below, through Delivery of Analytical Services (DAS) program.

<u>Analysis</u>	<u>Method</u>
Volatile	8260B
Semivolatile	8270C
Dissolved Gases	RSK-175
Glycols	8015B
Gas Range Organic (GRO)	8015B
Diesel Range Organic (DRO)	8015B
Ethylene Dibromide (EDB)	8011

SUMMARY

Data were validated according to Region 3 Modifications to the National Functional Guidelines for Organic Data Review, Level M3 and is assigned the Superfund Data Validation Label S4VM (Stage_4_Validation_Manual). Areas of concern with data usability are listed below.

MINOR PROBLEMS

- Triethylene glycol failed precision criteria [Percent Difference (%D)] in the continuing calibrations. Positive results for this compound in associated samples were qualified "J" on the DSFs. The precision was greater than fifty percent (>50%) in continuing calibration verification (CCV) 480-3080-1/15. Quantitation limits for samples associated with this CCV were qualified "UJ" on the Data Summary Forms (DSFs).
- In the ethylene dibromide analyses, samples FPT-1, N-1 and D-1 were not preserved when received by the laboratory. No positive results were reported for this compound in these analyses. Quantitation limits for this compound in these samples were qualified "UL" on the DSF.

NOTES

- Compounds detected below the Reporting Limits (RLs) were qualified "J" on the DSFs unless superseded by "B".
- All Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recoveries and Relative Percent Differences (RPDs) were within control limits.
- In the glycol analyses, Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses of sample H1 reported recoveries of triethylene glycol outside the lower control limit in both analyses. Relative Percent Differences (RPDs) in these analyses were within control limits. No data were qualified based on MS/MSD recoveries by the reviewer.
- Sample volumes other than thirty-five (35) ml were used in the EDB analyses and other than one (1) liter in the semivolatile and DRO analyses of these samples. The dilution factors reported on the DSFs reflect actual sample volumes analyzed.
- In the volatile analyses, no positive results were reported for compounds found in the analysis of the trip blank associated with these samples. Therefore, no data were qualified based on this blank contamination.
- The volatile and semivolatile samples were not scanned for Tentatively Identified Compounds (TICs) by the laboratory.
- The trip blank was not listed on the Chain of Custody (COC) record contained in the data package. Therefore, a sampling time could not be determined for this sample. No action was taken by the reviewer based on this finding.

MINOR PROBLEMS

- Triethylene glycol failed precision criteria [Percent Difference (%D)] in the continuing calibrations. Positive results for this compound in associated samples were qualified "J" on the DSFs. The precision was greater than fifty percent (>50%) in continuing calibration verification (CCV) 480-3080-1/15. Quantitation limits for samples associated with this CCV were qualified "UJ" on the Data Summary Forms (DSFs).
- In the ethylene dibromide analyses, samples FPT-1, N-1 and D-1 were not preserved when received by the laboratory. An aliquot was taken from an un-preserved one (1) liter amber glass bottle and preserved by the laboratory for this analysis. No positive results were reported for this compound in these analyses. Quantitation limits for this compound in these samples were qualified "UL" on the DSF.

NOTES

- Compounds detected below the Reporting Limits (RLs) were qualified "J" on the DSFs unless superseded by "B".
- All Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recoveries and Relative Percent Differences (RPDs) were within control limits.
- In the glycol analyses, Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses of sample H1 reported recoveries of triethylene glycol outside the lower control limit in both analyses. Relative Percent Differences (RPDs) in these analyses were within control limits. No data were qualified based on MS/MSD recoveries by the reviewer.
- Sample volumes other than thirty-five (35) ml were used in the EDB analyses and other than one (1) liter in the semivolatile and DRO analyses of these samples. The dilution factors reported on the DSFs reflect actual sample volumes analyzed.
- In the volatile analyses, no positive results were reported for compounds found in the analysis of the trip blank associated with these samples. Therefore, no data were qualified based on this blank contamination.
- The volatile and semivolatile samples were not scanned for Tentatively Identified Compounds (TICs) by the laboratory.
- The trip blank was not listed on the Chain of Custody (COC) record contained in the data package. Therefore, a sampling time could not be determined for this sample. No action was taken by the reviewer based on this finding.

- Concentrations of target compounds found in the analysis of samples' associated method blanks are listed below. Only compounds used to qualify data are listed. Samples with concentration of these contaminants less than five times (<5X) the blank concentration have been qualified "B" on the DSFs.

Volatile Analyses

<u>Blank</u>	<u>Compound</u>	<u>Concentration</u>	<u>Affected Samples</u>
Method (180-14017)	chloroform naphthalene	0.226 J µg/L 0.0789 J µg/L	Trip Blank H-1

GRO

<u>Blank</u>	<u>Compound</u>	<u>Concentration</u>	<u>Affected Samples</u>
Method (480-30437/3)	GRO	6.51 J µg/L	H-1, FH-1, FTP-1, RD-1, N-1

- Dissolved Gas samples listed below were re-analyzed at the dilutions given because the detected concentration of ethane and/or methane exceeded the linear calibration range in the initial analysis. The positive results for these compounds in these samples were reported from the dilutions by the reviewer and annotated with a "+" on the DSFs.

<u>Sample</u>	<u>Dilution Factor</u>	<u>Compound</u>
H-1	1000X	methane
FH-1	20X	methane
R-1, R-2	200X	ethane
	1000X	methane
KDE-1	10X	methane

ATTACHMENTS

- 1) Appendix A - Glossary of Data Qualifiers
- 2) Appendix B - Data Summary Forms
- 3) Appendix C - Chain of Custody (COC) Records
- 4) Appendix D - Laboratory Case Narrative

DCN: Project 180-3644-1DimockM3

Appendix A

Glossary of Data Qualifiers

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION

(confidence concerning presence or absence of compounds)

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

NO CODE = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION

(can be used for both positive results and sample quantitation limits):

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.

Q = No analytical result.

Appendix B

Data Summary Forms

DATA SUMMARY FORM: Volatiles

Page _1_ of _18_

Project Number: 180-3644-1
 Site :
 Lab. :

SDG : H-1
 DIMOCK
 TALP

Number of Soil Samples : 0
 Number of Water Samples : 12

Sample Number :	H-1	FH-1	FPT-1	S-1	R-1				
Sampling Location :	H-1	FH-1	FPT-1	S-1	R-1				
Laboratory ID:	180-3644-1	180-3644-2	180-3644-3	180-3644-4	180-3644-5				
Field QC:									
Matrix :	Water	Water	Water	Water	Water				
Units :	ug/L	ug/L	ug/L	ug/L	ug/L				
Date Sampled :	9/01/2011	9/01/2011	9/01/2011	9/01/2011	9/01/2011				
Time Sampled :	11:15	08:40	9:35	10:15	13:20				
pH :	<2.0	<2.0	<2.0	<2.0	<2.0				
Dilution Factor :	1.0	1.0	1.0	1.0	1.0				
Trace Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acetone	5.0			4.2	J				
Benzene	1.0								
Toluene	1.0								
Bromodichloromethane	1.0								
Ethylbenzene	1.0								
Bromoform	1.0								
Xylenes, Total	3.0								
Bromomethane	1.0								
Isopropylbenzene	1.0								
2-Butanone	5.0								
Methyl tert-butyl ether	1.0								
1,2,4-Trimethylbenzene	1.0								
Carbon disulfide	1.0								
1,3,5-Trimethylbenzene	1.0								
Carbon tetrachloride	1.0								
Chlorobenzene	1.0								
Chloroethane	1.0								
Chloroform	1.0								
Dibromochloromethane	1.0								
1,2-dibromoethane (EDB)	1.0								
Naphthalene	1.0	0.11	B						
1,2-Dichloroethane	1.0								
1,2-Dichloroethene, Total	1.0								
1,1-Dichloroethane	1.0								
Bromochloromethane	1.0								
1,2-Dichloroethane	1.0								
1,1-Dichloroethene	1.0								
trans-1,2-Dichloroethene	1.0								
1,2-Dichloropropane	1.0								
cis-1,3-Dichloropropene	1.0								
trans-1,3-Dichloropropene	1.0								
Ethylbenzene	1.0								
2-Hexanone	5.0								

DATA SUMMARY FORM: Volatiles

Page 2 of 18

Project Number: 180-3644-1

SDG : H-1

Site :

DIMOCK

Lab. :

TALP

Sample Number :	H-1	FH-1	FPT-1	S-1	R-1						
Sampling Location :	H-1	FH-1	FPT-1	S-1	R-1						
Laboratory ID:	180-3644-1	180-3644-2	180-3644-3	180-3644-4	180-3644-5						
Field QC:											
Matrix :	Water	Water	Water	Water	Water						
Units :	ug/L	ug/L	ug/L	ug/L	ug/L						
Date Sampled :	9/01/2011	9/01/2011	9/01/2011	9/01/2011	9/01/2011						
Time Sampled :	11:15	08:40	9:35	10:15	13:20						
pH :	<2.0	<2.0	<2.0	<2.0	<2.0						
Dilution Factor :	1.0	1.0	1.0	1.0	1.0						
Trace Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Methylene Chloride	1.0										
4-Methyl-2-pentanone (MIBK)	5.0										
Styrene	1.0										
1,1,2,2-Tetrachloroethane	1.0										
Tetrachloroethene	1.0										
1,1,1-Trichloroethane	1.0										
1,1,2-Trichloroethane	1.0										
Trichloroethene	1.0										
Vinyl Chloride	1.0										
N-propylbenzene	1.0										
cis-1,2-dichloroethene	1.0										
1,2-Dichlorobenzene	1.0										
sec-Butylbenzene	1.0										
1,3-Dichlorobenzene	1.0										
p-Isopropyltoluene	1.0										
1,4-Dichlorobenzene	1.0										
1,2,4-Trichlorobenzene	1.0										
Chloromethane	1.0										
n-Butylbenzene	1.0										
m-Xylene & p-Xylene	2.0										
o-Xylene	1.0										

RL = Reporting Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

DATA SUMMARY FORM: Volatiles

Page _3_ of _18_

Project Number: 180-3644-1

SDG : H-1
Site : DIMOCK
Lab. : TALP

Sample Number :	R-2	RD-1	RU-1	KDE-1	N-1						
Sampling Location :	R-2	RD-1	RU-1	KDE-1	N-1						
Laboratory ID:	180-3644-6	180-3644-7	180-3644-8	180-3644-9	180-3644-10						
Field QC:											
Matrix :	Water	Water	Water	Water	Water						
Units :	ug/L	ug/L	ug/L	ug/L	ug/L						
Date Sampled :	9/01/2011	9/01/2011	9/01/2011	9/01/2011	9/01/2011						
Time Sampled :	13:40	14:10	14:45	15:35	17:45						
pH :	<2.0	<2.0	<2.0	<2.0	<2.0						
Dilution Factor :	1.0	1.0	1.0	1.0	1.0						
Trace Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acetone	5.0					2.6	J				
Benzene	1.0										
Toluene	1.0										
Bromodichloromethane	1.0										
Ethylbenzene	1.0										
Bromoform	1.0										
Xylenes, Total	3.0										
Bromomethane	1.0										
Isopropylbenzne	1.0										
2-Butanone	5.0										
Methyl tert-butyl ether	1.0										
1,2,4-Trimethylbenzene	1.0										
Carbon disulfide	1.0										
1,3,5-Trimethylbenzene	1.0										
Carbon tetrachloride	1.0										
Chlorobenzne	1.0										
Chloroethane	1.0										
Chloroform	1.0										
Dibromochloromethane	1.0										
1,2-dibromoethane (EDB)	1.0										
Naphthalene	1.0										
1,2-Dichloroethane	1.0										
1,2-Dichloroethene, Total	1.0										
1,1-Dichloroethane	1.0										
Bromochloromethane	1.0										
1,2-Dichloroethane	1.0										
1,1-Dichloroethene	1.0										
trans-1,2-Dichloroethene	1.0										
1,2-Dichloropropane	1.0										
cis-1,3-Dichloropropene	1.0										
trans-1,3-Dichloropropene	1.0										
Ethylbenzene	1.0										
2-Hexanone	5.0										

DATA SUMMARY FORM: Volatiles

Page 4 of 18

Project Number: 180-3644-1

SDG : H-1

Site :

DIMOCK

Lab. :

TALP

Sample Number :	R-2	RD-1	RU-1	KDE-1	N-1						
Sampling Location :	R-2	RD-1	RU-1	KDE-1	N-1						
Laboratory ID:	180-3644-6	180-3644-7	180-3644-8	180-3644-9	180-3644-10						
Field QC:											
Matrix :	Water	Water	Water	Water	Water						
Units :	ug/L	ug/L	ug/L	ug/L	ug/L						
Date Sampled :	9/01/2011	9/01/2011	9/01/2011	9/01/2011	9/01/2011						
Time Sampled :	13:40	14:10	14:45	15:35	17:45						
pH :	<2.0	<2.0	<2.0	<2.0	<2.0						
Dilution Factor :	1.0	1.0	1.0	1.0	1.0						
Trace Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Methylene Chloride	1.0										
4-Methyl-2-pentanone (MIBK)	5.0										
Styrene	1.0										
1,1,2,2-Tetrachloroethane	1.0										
Tetrachloroethene	1.0										
Toluene	1.0										
1,1,1-Trichloroethane	1.0										
1,1,2-Trichloroethane	1.0										
Trichloroethene	1.0										
Vinyl Chloride	1.0										
N-propylbenzene	1.0										
cis-1,2-dichloroethene	1.0										
1,2-Dichlorobenzene	1.0										
sec-Butylbenzene	1.0										
1,3-Dichlorobenzene	1.0										
p-Isopropyltoluene	1.0										
1,4-Dichlorobenzene	1.0										
1,2,4-Trichlorobenzene	1.0										
Chloromethane	1.0										
n-Butylbenzene	1.0										
m-Xylene & p-Xylene	2.0										
o-Xylene	1.0										

RL = Reporting Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

DATA SUMMARY FORM: Volatiles

Page 5 of 18

Project Number: 180-3644-1

SDG : H-1

Site :

DIMOCK

Lab. :

TALP

Sample Number :	D-1	TRIP BLANK							
Sampling Location :	D-1	TRIP BLANK							
Laboratory ID:	180-3644-11	180-3644-12							
Field QC:		Trip Blank							
Matrix :	Water	Water							
Units :	ug/L	ug/L							
Date Sampled :	9/01/2011	9/01/2011							
Time Sampled :	18:15	N/A							
pH :	<2.0	<2.0							
Dilution Factor :	1.0	1.0							
Trace Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acetone	5.0								
Benzene	1.0								
Toluene	1.0								
Bromodichloromethane	1.0								
Ethylbenzene	1.0								
Bromoform	1.0								
Xylenes, Total	3.0								
Bromomethane	1.0								
Isopropylbenzene	1.0								
2-Butanone	5.0								
Methyl tert-butyl ether	1.0								
1,2,4-Trimethylbenzene	1.0								
Carbon disulfide	1.0								
1,3,5-Trimethylbenzene	1.0								
Carbon tetrachloride	1.0								
Chlorobenzene	1.0								
Chloroethane	1.0								
Chloroform	1.0			0.28	B				
Dibromochloromethane	1.0								
1,2-dibromoethane (EDB)	1.0								
Naphthalene	1.0								
1,2-Dichloroethane	1.0								
1,2-Dichloroethene, Total	1.0								
1,1-Dichloroethane	1.0								
Bromochloromethane	1.0								
1,2-Dichloroethane	1.0								
1,1-Dichloroethene	1.0								
trans-1,2-Dichloroethene	1.0								
1,2-Dichloropropane	1.0								
cis-1,3-Dichloropropene	1.0								
trans-1,3-Dichloropropene	1.0								
Ethylbenzene	1.0								
2-Hexanone	5.0								

DATA SUMMARY FORM: Volatiles

Page 6 of 18

Project Number: 180-3644-1

Site :

Lab. :

SDG : H-1

DIMOCK

TALP

Sample Number :	D-1	TRIP BLANK									
Sampling Location :	D-1	TRIP BLANK									
Laboratory ID:	180-3644-11	180-3644-12									
Field QC:		Trip Blank									
Matrix :	Water	Water									
Units :	ug/L	ug/L									
Date Sampled :	9/01/2011	9/01/2011									
Time Sampled :	18:15	N/A									
pH :	<2.0	<2.0									
Dilution Factor :	1.0	1.0									
Trace Volatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Methylene Chloride	1.0										
4-Methyl-2-pentanone (MIBK)	5.0										
Styrene	1.0										
1,1,2,2-Tetrachloroethane	1.0										
Tetrachloroethene	1.0										
Toluene	1.0										
1,1,1-Trichloroethane	1.0										
1,1,2-Trichloroethane	1.0										
Trichloroethene	1.0										
Vinyl Chloride	1.0										
N-propylbenzene	1.0										
cis-1,2-dichloroethene	1.0										
1,2-Dichlorobenzene	1.0										
sec-Butylbenzene	1.0										
1,3-Dichlorobenzene	1.0										
p-Isopropyltoluene	1.0										
1,4-Dichlorobenzene	1.0										
1,2,4-Trichlorobenzene	1.0										
Chloromethane	1.0										
n-Butylbenzene	1.0										
m-Xylene & p-Xylene	2.0										
o-Xylene	1.0										

RL = Reporting Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

DATA SUMMARY FORM: BNA

Page 7 of 18

Project Number: 180-3644-1
 Site :
 Lab. :

SDG : H-1
 DIMOCK
 TALP

Number of Soil Samples : 0
 Number of Water Samples : 11

Sample Number :	H-1	FH-1	FPT-1	S-1	R-1						
Sampling Location :	H-1	FH-1	FPT-1	S-1	R-1						
Laboratory ID:	180-3644-1	180-3644-2	180-3644-3	180-3644-4	180-3644-5						
Field QC :											
Matrix :	Water	Water	Water	Water	Water						
Units :	ug/L	ug/L	ug/L	ug/L	ug/L						
Date Sampled :	9/01/2011	9/01/2011	9/01/2011	9/01/2011	9/01/2011						
Time Sampled :	11:15	08:40	9:35	10:15	13:20						
Dilution Factor :	0.97	0.96	0.96	0.96	0.96						
Semivolatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	0.20										
Anthracene	0.20										
Acenaphthylene	0.20										
Benzo(a)anthracene	0.20										
Benzo(b)fluoranthene	0.20										
Benzo(a)anthracene	0.20										
Benzo(g,h,i)perylene	0.20										
Benzo(a)pyrene	0.20										
Benzo(k)fluoranthene	0.20										
Chrysene	0.20										
Fluorene	0.20										
Indeo(1,2,3-cd)pyrene	0.20										
Bis(2-chloroethoxy)methane	1.00										
Phenanthrene	0.20	0.045	J								
Bis(2-chloroethyl)ether	0.20										
Pyrene	0.20										
Bis(2-ethylhexyl)phthalate	2.00	2.3									
Butylbenzylphthalate	1.00	0.49	J	0.48	J	0.47	J	0.36	J	0.31	J
Carbazole	0.20										
Chrysene	0.20										
2-Chloronaphthalene	0.20										
2-Chlorophenol	1.00										
2,4-Dichlorophenol	0.20										
2,4-Dimethylphenol	1.00										
2,4-Dinitrophenol	5.00										
2,4-Dinitrotoluene	1.00										
2,6-Dinitrotoluene	1.00										
1,2-Dichlorobenzene	1.00										
2-Methylnaphthalene	0.20	0.022	J								
1,3-Dichlorobenzene	1.00										
2-Methylphenol	1.00										
1,4-Dichlorobenzene	1.00										
2-Nitroaniline	5.00										

DATA SUMMARY FORM: BNA

Page 8 of 18

Project Number: 180-3644-1

SDG : H-1

Site :

Lab. :

DIMOCK

TALP

Sample Number :	H-1	FH-1	FPT-1	S-1	R-1
Sampling Location :	H-1	FH-1	FPT-1	S-1	R-1
Laboratory ID:	180-3644-1	180-3644-2	180-3644-3	180-3644-4	180-3644-5
Field QC :					
Matrix :	Water	Water	Water	Water	Water
Units :	ug/L	ug/L	ug/L	ug/L	ug/L
Date Sampled :	9/01/2011	9/01/2011	9/01/2011	9/01/2011	9/01/2011
Time Sampled :	11:15	08:40	9:35	10:15	13:20
Dilution Factor :	0.97	0.96	0.96	0.96	0.96
Semivolatile Compound	RL	Result	Flag	Result	Flag
2-Nitrophenol	1.00				
bis(2-chloroisopropyl)ether	0.20				
2,4,5-Trichlorophenol	1.00				
2,4,6-Trichlorophenol	1.00				
4-Nitroaniline	5.00				
4-Nitrophenol	5.00				
4-Chlorophenyl phenyl ether	1.00				
Methylphenol, 3 & 4	1.00				
4,6-Dinitro-2-methylphenol	5.00				
4-chloroaniline	1.00				
4-Chloro-3-methylphenol	1.00				
4-Bromophenyl phenyl ether	1.00				
Dibenz(a,h)anthracene	0.20				
Dibenzofuran	1.00				
Di-n-butylphthalate	1.00				
Diethylphthalate	1.00				
Dimethylphthalate	1.00				
Di-n-octylphthalate	1.00				
3,3'-Dichlorobenzidine	1.00				
3-Nitroaniline	5.00				
Fluoranthene	0.20				
1,2,4-Trichlorobenzene	1.00				
Hexachlorobenzene	0.20				
Hexachlorobutadiene	0.20				
Hexachlorocyclopentadiene	1.00				
Hexachloroethane	1.00				
Isophorone	1.00				
Naphthalene	0.20	0.37		0.061	J
Nitrobenzene	2.00				
N-Nitrosodiphenylamine	1.00				
N-Nitroso-n-propylamine	0.20				
Phenol	0.20				
Phenanthrene	0.20				
Pentachlorophenol	1.00				
Benzyl alcohol	1.00				
N-Nitrosodimethylamine	1.00				
Benzoic acid	5.00				
1,2-Diphenylhydrazine (as Azobenzene)	1.00	0.025	J		
1-Methylnaphthalene	0.20				

RL = Reporting Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

DATA SUMMARY FORM: BNA

Page 9 of 18

Project Number: 180-3644-1

SDG : H-1

Site :

DIMOCK

Lab. :

TALP

Sample Number :	R-2	RD-1	RU-1	KDE-1	N-1						
Sampling Location :	R-2	RD-1	RU-1	KDE-1	N-1						
Laboratory ID:	180-3644-6	180-3644-7	180-3644-8	180-3644-9	180-3644-10						
Field QC:											
Matrix :	Water	Water	Water	Water	Water						
Units :	ug/L	ug/L	ug/L	ug/L	ug/L						
Date Sampled :	9/01/2011	9/01/2011	9/01/2011	9/01/2011	9/01/2011						
Time Sampled :	13:40	14:10	14:45	15:35	17:45						
Dilution Factor :	0.98	1.14	1.02	0.98	1.10						
Semivolatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	0.20									0.030	J
Anthracene	0.20										
Acenaphthylene	0.20										
Benzo(a)anthracene	0.20										
Benzo(b)fluoranthene	0.20										
Benzo(a)anthracene	0.20										
Benzo(g,h,i)perylene	0.20										
Benzo(a)pyrene	0.20										
Benzo(k)fluoranthene	0.20										
Chrysene	0.20										
Fluorene	0.20										
Indeo(1,2,3-cd)pyrene	0.20										
Bis(2-chloroethoxy)methane	1.00										
Phenanthrene	0.20									0.048	J
Bis(2-chloroethyl)ether	0.20										
Pyrene	0.20										
Bis(2-ethylhexyl)phthalate	2.00										
Butylbenzylphthalate	1.00	0.39	J	0.44	J	0.37	J	0.42	J	0.51	J
Carbazole	0.20										
Chrysene	0.20										
2-Chloronaphthalene	0.20										
2-Chlorophenol	1.00										
2,4-Dichlorophenol	0.20										
2,4-Dimethylphenol	1.00										
2,4-Dinitrophenol	5.00										
2,4-Dinitrotoluene	1.00										
2,6-Dinitrotoluene	1.00										
1,2-Dichlorobenzene	1.00										
2-Methylnaphthalene	0.20									0.016	J
1,3-Dichlorobenzene	1.00										
2-Methylphenol	1.00										
1,4-Dichlorobenzene	1.00										
2-Nitroaniline	5.00										

DATA SUMMARY FORM: BNA

Page 10 of 18

Project Number: 180-3644-1
 Site :
 Lab. :

SDG : H-1
 DIMOCK
 TALP

Sample Number :	R-2	RD-1	RU-1	KDE-1	N-1				
Sampling Location :	R-2	RD-1	RU-1	KDE-1	N-1				
Field QC :	180-3644-6	180-3644-7	180-3644-8	180-3644-9	180-3644-10				
Matrix :	Water	Water	Water	Water	Water				
Units :	ug/L	ug/L	ug/L	ug/L	ug/L				
Date Sampled :	9/01/2011	9/01/2011	9/01/2011	9/01/2011	9/01/2011				
Time Sampled :	13:40	14:10	14:45	15:35	17:45				
Dilution Factor :	0.98	1.14	1.02	0.98	1.10				
Semivolatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Nitrophenol	1.00								
bis(2-chloroisopropyl)ether	0.20								
2,4,5-Trichlorophenol	1.00								
2,4,6-Trichlorophenol	1.00								
4-Nitroaniline	5.00								
4-Nitrophenol	5.00								
4-Chlorophenyl phenyl ether	1.00								
Methylphenol, 3 & 4	1.00								
4,6-Dinitro-2-methylphenol	5.00								
4-chloroaniline	1.00								
4-Chloro-3-methylphenol	1.00								
4-Bromophenyl phenyl ether	1.00								
Dibenz(a,h)anthracene	0.20								
Dibenzofuran	1.00								
Di-n-butylphthalate	1.00								
Diethylphthalate	1.00								
Dimethylphthalate	1.00								
Di-n-octylphthalate	1.00								
3,3'-Dichlorobenzidine	1.00								
3-Nitroaniline	5.00								
Fluoranthene	0.20								
1,2,4-Trichlorobenzene	1.00								
Hexachlorobenzene	0.20								
Hexachlorobutadiene	0.20								
Hexachlorocyclopentadiene	1.00								
Hexachloroethane	1.00								
Isophorone	1.00								
Naphthalene	0.20							0.31	
Nitrobenzene	2.00								
N-Nitrosodiphenylamine	1.00								
N-Nitroso-n-propylamine	0.20								
Phenol	0.20								
Phenanthrene	0.20								
Pentachlorophenol	1.00								
Benzyl alcohol	1.00								
N-Nitrosodimethylamine	1.00								
Benzoic acid	5.00								
1,2-Diphenylhydrazine (as Azobenzene)	1.00								
1-Methylnaphthalene	0.20							0.023	J

RL = Reporting Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

Project Number: 180-3644-1

SDG : H-1

Site :

DIMOCK

Lab. :

TALP

Sample Number :	D-1								
Sampling Location :	D-1								
Laboratory ID:	180-3644-11								
Field QC :									
Matrix :	Water								
Units :	ug/L								
Date Sampled :	9/01/2011								
Time Sampled :	18:15								
Dilution Factor :	1.01								
Semivolatile Compound	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	0.20								
Anthracene	0.20								
Acenaphthylene	0.20								
Benzo(a)anthracene	0.20								
Benzo(b)fluoranthene	0.20								
Benzo(a)anthracene	0.20								
Benzo(g,h,i)perylene	0.20								
Benzo(a)pyrene	0.20								
Benzo(k)fluoranthene	0.20								
Chrysene	0.20								
Fluorene	0.20								
Indeo(1,2,3-cd)pyrene	0.20								
Bis(2-chloroethoxy)methane	1.00								
Phenanthrene	0.20								
Bis(2-chloroethyl)ether	0.20								
Pyrene	0.20								
Bis(2-ethylhexyl)phthalate	2.00								
Butylbenzylphthalate	1.00	0.54	J						
Carbazole	0.20								
Chrysene	0.20								
2-Chloronaphthalene	0.20								
2-Chlorophenol	1.00								
2,4-Dichlorophenol	0.20								
2,4-Dimethylphenol	1.00								
2,4-Dinitrophenol	5.00								
2,4-Dinitrotoluene	1.00								
2,6-Dinitrotoluene	1.00								
1,2-Dichlorobenzene	1.00								
2-Methylnaphthalene	0.20								
1,3-Dichlorobenzene	1.00								
2-Methylphenol	1.00								
1,4-Dichlorobenzene	1.00								
2-Nitroaniline	5.00								

DATA SUMMARY FORM: BNA

Page 12 of 18

Project Number: 180-3644-1

SDG : H-1

Site :

DIMOCK

Lab. :

TALP

Sample Number :	D-1										
Sampling Location :	D-1										
Laboratory ID:	180-3644-11										
Field QC :											
Matrix :	Water										
Units :	ug/L										
Date Sampled :	9/01/2011										
Time Sampled :	18:15										
Dilution Factor :	1.01										
Semivolatile Compound	RL	Result	Flag								
2-Nitrophenol	1.00										
bis(2-chloroisopropyl)ether	0.20										
2,4,5-Trichlorophenol	1.00										
2,4,6-Trichlorophenol	1.00										
4-Nitroaniline	5.00										
4-Nitrophenol	5.00										
4-Chlorophenyl phenyl ether	1.00										
Methylphenol, 3 & 4	1.00										
4,6-Dinitro-2-methylphenol	5.00										
4-chloroaniline	1.00										
4-Chloro-3-methylphenol	1.00										
4-Bromophenyl phenyl ether	1.00										
Dibenz(a,h)anthracene	0.20										
Dibenzofuran	1.00										
Di-n-butylphthalate	1.00										
Diethylphthalate	1.00										
Dimethylphthalate	1.00										
Di-n-octylphthalate	1.00										
3,3'-Dichlorobenzidine	1.00										
3-Nitroaniline	5.00										
Fluoranthene	0.20										
1,2,4-Trichlorobenzene	1.00										
Hexachlorobenzene	0.20										
Hexachlorobutadiene	0.20										
Hexachlorocyclopentadiene	1.00										
Hexachloroethane	1.00										
Isophorone	1.00										
Naphthalene	0.20										
Nitrobenzene	2.00										
N-Nitrosodiphenylamine	1.00										
N-Nitroso-n-propylamine	0.20										
Phenol	0.20										
Phenanthrene	0.20										
Pentachlorophenol	1.00										
Benzyl alcohol	1.00										
N-Nitrosodimethylamine	1.00										
Benzoic acid	5.00										
1,2-Diphenylhydrazine (as Azobenzene)	1.00										
1-Methylnaphthalene	0.20										

RL = Reporting Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

DATA SUMMARY FORM: Dissolved Gases

Page 13 of 18

Project Number: 180-3644-1
 Site : DIMOCK
 Lab. : TALP

Number of Soil Samples : 0
 Number of Water Samples : 11

Sample Number :	H-1	FH-1	FPT-1	S-1	R-1
Sampling Location :	H-1	FH-1	FPT-1	S-1	R-1
Laboratory ID:	180-3644-1	180-3644-2	180-3644-3	180-3644-4	180-3644-5
Field QC:					
Matrix :	Water	Water	Water	Water	Water
Units :	ug/L	ug/L	ug/L	ug/L	ug/L
Date Sampled :	9/01/2011	9/01/2011	9/01/2011	9/01/2011	9/01/2011
Time Sampled :	11:15	08:40	9:35	10:15	13:20
pH :	<2.0	<2.0	<2.0	<2.0	<2.0
Dilution Factor :	1.0/1000	1.0/20.0	1.0	1.0	1.0/200/1000
Dissolved Gases	RL	Result	Flag	Result	Flag
Propane	3.0				
Ethane	1.5	2.3			
Ethylene	1.5				
Methane	1.0	12000+		33+	

Sample Number :	R-2	RD-1	RU-1	KDE-1	N-1
Sampling Location :	R-2	RD-1	RU-1	KDE-1	N-1
Laboratory ID:	180-3644-6	180-3644-7	180-3644-8	180-3644-9	180-3644-10
Field QC:					
Matrix :	Water	Water	Water	Water	Water
Units :	ug/L	ug/L	ug/L	ug/L	ug/L
Date Sampled :	9/01/2011	9/01/2011	9/01/2011	9/01/2011	9/01/2011
Time Sampled :	13:40	14:10	14:45	15:35	17:45
pH :	<2.0	<2.0	<2.0	<2.0	<2.0
Dilution Factor :	1.0/100/1000	1.0	1.0	1.0/10.0	1.0
Dissolved Gases	RL	Result	Flag	Result	Flag
Propane	3.0	4.2			
Ethane	1.5	120+	J		
Ethylene	1.5				
Methane	1.0	5400+			79+

Sample Number :	D-1				
Sampling Location :	D-1				
Laboratory ID:	180-3644-11				
Field QC:					
Matrix :	Water				
Units :	ug/L				
Date Sampled :	9/01/2011				
Time Sampled :	18:15				
pH :	<2.0				
Dilution Factor :	1.0				
Dissolved Gases	RL	Result	Flag	Result	Flag
Propane	3.0				
Ethane	1.5				
Ethylene	1.5				
Methane	1.0				

RL = Reporting Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

+ = Result reported from the diluted analysis. See dilution table in case narrative.

DATA SUMMARY FORM: Glycols

Page 14 of 18

Project Number: 180-3644-1

SDG : H-1

Site :

DIMOCK

Lab. :

TALP

Number of Soil Samples : 0

Number of Water Samples : 11

Sample Number :	H-1	FH-1	FPT-1	S-1	R-1				
Sampling Location :	H-1	FH-1	FPT-1	S-1	R-1				
Laboratory ID:	180-3644-1	180-3644-2	180-3644-3	180-3644-4	180-3644-5				
Field QC:									
Matrix :	Water	Water	Water	Water	Water				
Units :	mg/L	mg/L	mg/L	mg/L	mg/L				
Date Sampled :	9/01/2011	9/01/2011	9/01/2011	9/01/2011	9/01/2011				
Time Sampled :	11:15	08:40	9:35	10:15	13:20				
Dilution Factor :	1.0	1.0	1.0	1.0	1.0				
Glycols	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10	1.6	J	1.3	J			0.84	J
Propylene glycol	10								
Triethylene glycol	10	1.9	J	2.1	J	UJ	UJ		UJ
2,2'-Oxybisethanol	10	1.2	J			0.61	J	0.63	J
2-Methoxyethanol	10	1.3	J			1.5	J	0.88	J
2-Ethoxyethanol	10							1.1	J

Sample Number :	R-2	RD-1	RU-1	KDE-1	N-1				
Sampling Location :	R-2	RD-1	RU-1	KDE-1	N-1				
Laboratory ID:	180-3644-6	180-3644-7	180-3644-8	180-3644-9	180-3644-10				
Field QC:									
Matrix :	Water	Water	Water	Water	Water				
Units :	mg/L	mg/L	mg/L	mg/L	mg/L				
Date Sampled :	9/01/2011	9/01/2011	9/01/2011	9/01/2011	9/01/2011				
Time Sampled :	13:40	14:10	14:45						
Dilution Factor :	1.0	1.0							
Glycols	RL	Result	Flag	Result	Flag	Result	Flag		Flag
Ethylene glycol	10	1.0	J	1.2	J	1.1	J	1.6	J
Propylene glycol	10								
Triethylene glycol	10		UJ		UJ			4.0	J
2,2'-Oxybisethanol	10	0.62	J	0.85	J	1.3	J	3.6	J
2-Methoxyethanol	10	1.1	J	1.4	J	0.91	J	1.0	J
2-Ethoxyethanol	10							0.76	J

RL = Reporting Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

DATA SUMMARY FORM: Glycols

Page 15 of 18

Project Number: 180-3644-1 SDG : H-1
 Site : DIMOCK
 Lab. : TALP

Sample Number :	D-1								
Sampling Location :	D-1								
Laboratory ID:	180-3644-11								
Field QC:									
Matrix :	Water								
Units :	mg/L								
Date Sampled :	9/01/2011								
Time Sampled :	18:15								
Dilution Factor :	1.0								
Glycols	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Ethylene glycol	10	0.88	J						
Propylene glycol	10								
Triethylene glycol	10	3.2	J						
2,2'-Oxybisethanol	10								
2-Methoxyethanol	10								
2-Ethoxyethanol	10								

RL = Reporting Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

DATA SUMMARY FORM: Gas Range Organics (GRO)

Page _16_ of _18_

Project Number: 180-3644-1
 Site : DIMOCK
 Lab. : TALP

SDG : H-1
 DIMOCK
 TALP

Number of Soil Samples : 0
 Number of Water Samples : 11

Sample Number :	H-1	FH-1	FPT-1	S-1	R-1				
Sampling Location :	H-1	FH-1	FPT-1	S-1	R-1				
Laboratory ID:	180-3644-1	180-3644-2	180-3644-3	180-3644-4	180-3644-5				
Field QC:									
Matrix :	Water	Water	Water	Water	Water				
Units :	ug/L	ug/L	ug/L	ug/L	ug/L				
Date Sampled :	9/01/2011	9/01/2011	9/01/2011	9/01/2011	9/01/2011				
Time Sampled :	11:15	08:40	9:35	10:15	13:20				
pH :	<2.0	<2.0	<2.0	<2.0	<2.0				
Dilution Factor :	1.0	1.0	1.0	1.0	1.0				
Analyte	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Gas Range Organic (GRO)	25	7.7	B	5.4	B	12	B		

Sample Number :	R-2	RD-1	RU-1	KDE-1	N-1				
Sampling Location :	R-2	RD-1	RU-1	KDE-1	N-1				
Laboratory ID:	180-3644-6	180-3644-7	180-3644-8	180-3644-9	180-3644-10				
Field QC:									
Matrix :	Water	Water	Water	Water	Water				
Units :	ug/L	ug/L	ug/L	ug/L	ug/L				
Date Sampled :	9/01/2011	9/01/2011	9/01/2011	9/01/2011	9/01/2011				
Time Sampled :	13:40	14:10	14:45	15:35	17:45				
pH :	<2.0	<2.0	<2.0	<2.0	<2.0				
Dilution Factor :	1.0	1.0	1.0	1.0	1.0				
Analyte	RL	Result	Flag	Result	Flag	Result	Flag		Flag
Gas Range Organic (GRO)	25			11	B			10	B

Sample Number :	D-1								
Sampling Location :	D-1								
Laboratory ID:	180-3644-11								
Field QC:									
Matrix :	Water								
Units :	ug/L								
Date Sampled :	9/01/2011								
Time Sampled :	18:15								
pH :	<2.0								
Dilution Factor :	1.0								
Analyte	RL	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Gas Range Organic (GRO)	25								

RL = Reporting Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

DATA SUMMARY FORM: Diesel Range Organics (DRO)

Page 17 of 18

Project Number: 180-3644-1

SDG : H-1

Site :

DIMOCK

Lab. :

TALP

Number of Soil Samples : 0

Number of Water Samples : 11

Sample Number :	H-1	FH-1	FPT-1	S-1	R-1
Sampling Location :	H-1	FH-1	FPT-1	S-1	R-1
Laboratory ID:	180-3644-1	180-3644-2	180-3644-3	180-3644-4	180-3644-5
Field QC:					
Matrix :	Water	Water	Water	Water	Water
Units :	mg/L	mg/L	mg/L	mg/L	mg/L
Date Sampled :	9/01/2011	9/01/2011	9/01/2011	9/01/2011	9/01/2011
Time Sampled :	11:15	08:40	9:35	10:15	13:20
Dilution Factor :	0.94	0.94	1.04	1.03	0.94
Analyte	RL	Result	Flag	Result	Flag
Diesel Range Organic (DRO)	0.50				

Sample Number :	R-2	RD-1	RU-1	KDE-1	N-1
Sampling Location :	R-2	RD-1	RU-1	KDE-1	N-1
Laboratory ID:	180-3644-6	180-3644-7	180-3644-8	180-3644-9	180-3644-10
Field QC:					
Matrix :	Water	Water	Water	Water	Water
Units :	mg/L	mg/L	mg/L	mg/L	mg/L
Date Sampled :	9/01/2011	9/01/2011	9/01/2011	9/01/2011	9/01/2011
Time Sampled :	13:40	14:10	14:45	15:35	17:45
Dilution Factor :	0.95	1.14	0.99	0.99	0.98
Analyte	RL	Result	Flag	Result	Flag
Diesel Range Organic (DRO)	0.50				

Sample Number :	D-1					
Sampling Location :	D-1					
Laboratory ID:	180-3644-11					
Field QC:						
Matrix :	Water					
Units :	mg/L					
Date Sampled :	9/01/2011					
Time Sampled :	18:15					
pH :	<2.0					
Dilution Factor :	1.14					
Analyte	RL	Result	Flag	Result	Flag	Result
Diesel Range Organic (DRO)	0.50					

RL = Reporting Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

DATA SUMMARY FORM: EDB, DBCP, 1,2,3-TCP

Page 18 of 18

Project Number: 180-3644-1

SDG : H-1

Site :

DIMOCK

Lab. :

TALP

Number of Soil Samples : 0

Number of Water Samples : 11

Sample Number :	H-1	FH-1	FPT-1	S-1	R-1
Sampling Location :	H-1	FH-1	FPT-1	S-1	R-1
Laboratory ID:	180-3644-1	180-3644-2	180-3644-3	180-3644-4	180-3644-5
Field QC:					
Matrix :	Water	Water	Water	Water	Water
Units :	ug/L	ug/L	ug/L	ug/L	ug/L
Date Sampled :	9/01/2011	9/01/2011	9/01/2011	9/01/2011	9/01/2011
Time Sampled :	11:15	08:40	9:35	10:15	13:20
pH :	<2.0	<2.0	<2.0	<2.0	<2.0
Dilution Factor :	0.99	0.99	0.99	0.99	0.98
Analyte	RL	Result	Flag	Result	Flag
Ethylene Dibromide (EDB)	0.020			UL	

Sample Number :	R-2	RD-1	RU-1	KDE-1	N-1
Sampling Location :	R-2	RD-1	RU-1	KDE-1	N-1
Laboratory ID:	180-3644-6	180-3644-7	180-3644-8	180-3644-9	180-3644-10
Field QC:					
Matrix :	Water	Water	Water	Water	Water
Units :	ug/L	ug/L	ug/L	ug/L	ug/L
Date Sampled :	9/01/2011	9/01/2011	9/01/2011	9/01/2011	9/01/2011
Time Sampled :	13:40	14:10	14:45	15:35	17:45
pH :	<2.0	<2.0	<2.0	<2.0	<2.0
Dilution Factor :	1.0	1.0	1.0	0.98	1.0
Analyte	RL	Result	Flag	Result	Flag
Ethylene Dibromide (EDB)	0.020				UL

Sample Number :	D-1					
Sampling Location :	D-1					
Laboratory ID:	180-3644-11					
Field QC:						
Matrix :	Water					
Units :	ug/L					
Date Sampled :	9/01/2011					
Time Sampled :	18:15					
pH :	<2.0					
Dilution Factor :	0.99					
Analyte	RL	Result	Flag	Result	Flag	Result
Ethylene Dibromide (EDB)	0.020		UL			

RL = Reporting Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (RL * Dilution Factor)

Revised 09/99

Appendix C

Chain of Custody (COC) Records

Chain of Custody Record

Pittsburgh

Water

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location:

 DW NPDES RCRA Other

Client Contact

Company Name: URS Corporation
 Address: 501 Holiday Dr., Suite 300
 City/State/Zip: Pittsburgh, PA 15220
 Phone: 412-503-4700
 Project Name: K&L Gates Focused Site Assessment
 Project Number: 39938688.00001
 PO# 694872

Client Project Manager:

Thomas Merski

Telephone: 412-503-4603

Email: James-Pinta@urscorp.com

Method of Shipment/CARRIER: FedEx Next Day Air

Shipping/Tracking No:

Site Contact:

Jim Pinta

Telephone: 412-860-6342 (cell)

Lab Contact:

Carrie Fraumberger

Telephone: 412-963-7058

TestAmerica Laboratories, Inc.

COC No. 005410

or COC

Analyses

TAT if different from below

- 3 weeks
- 2 weeks
- 1 week
- 2 days
- 1 day

Analytical Methods Used

(Check all applicable)

	VOCs	S100S	Metals (Total Dissolved)	Dissolved Solids	Glycols	DBO/GEO	MBAS
	X	X	X	X	X	X	X

Sample Specific Notes / Special Instructions:

D99-214-06-237

Sample Identification

Sample Date

9/1/11

11:15AM

X

Sample Time

11:

A.M.

X

Agencies

Soil/Soil

Rock

Others

Matrix

Soil

HNO3

HCl

Compounds & Preservatives

NaOH

ZnAc

NaOH

Preservatives

Impres

Others

H-1	9/1/11	11:15AM	X
FH-1	9/1/11	8:40 AM	X
FPT-1	9/1/11	9:35 AM	X
S-	9/1/11	10:15AM	X
R-1	9/1/11	1:20PM	X
R-2	9/1/11	1:40PM	X
RD-1	9/1/11	2:10PM	X
EY-E-1	9/1/11	2:45 PM	X
EY-E-1	9/1/11	3:35 PM	X
N-1	9/1/11	5:45PM	X
D-1	9/1/11	8:15PM	X

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

 Return to Client Disposal By Lab Archive For

Months

Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:

Relinquished by:	John Pinta	Company: URS Corp	Date/Time: 9/1/11	Received by:	Company: URS Corp	Date/Time:
Relinquished by:	John Pinta	Company: URS Corp	Date/Time: 9/1/11	Received by:	Company: URS Corp	Date/Time: 9/1/11 0900
Relinquished by:		Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

9/6/2011

Login Container Summary Report

180-3644

Temperature readings:

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Preservative Added (mls)</u>	<u>Lot #</u>
H-1	180-3644-A-1	Plastic 1 liter - unpreserved			
H-1	180-3644-B-1	Amber Glass 1 liter - Hydrochloric	2		
H-1	180-3644-C-1	Amber Glass 1 liter - Hydrochloric	2		
H-1	180-3644-D-1	Amber Glass 1 liter - Sulfuric Acid	2		
H-1	180-3644-E-1	Amber Glass 1 liter - Sulfuric Acid	2		
H-1	180-3644-F-1	Amber Glass 1 liter - unpreserved			
H-1	180-3644-G-1	Amber Glass 1 liter - unpreserved			
H-1	180-3644-H-1	Plastic 500ml - with Nitric Acid	2		
H-1	180-3644-I-1	Plastic 500ml - unpreserved			
H-1	180-3644-J-1	Plastic 250ml - with Sulfuric Acid	2		
H-1	180-3644-K-1	Voa Vial 40ml - unpreserved			
H-1	180-3644-L-1	Voa Vial 40ml - unpreserved			
H-1	180-3644-M-1	Voa Vial 40ml - unpreserved			
H-1	180-3644-N-1	Voa Vial 40ml - Hydrochloric Acid	P		
H-1	180-3644-O-1	Voa Vial 40ml - Hydrochloric Acid	1		
H-1	180-3644-P-1	Voa Vial 40ml - Hydrochloric Acid	1		
H-1	180-3644-Q-1	Voa Vial 40ml - Hydrochloric Acid	1		
H-1	180-3644-R-1	Voa Vial 40ml - Hydrochloric Acid	1		
H-1	180-3644-S-1	Voa Vial 40ml - Hydrochloric Acid	1		
H-1	180-3644-T-1	Voa Vial 40ml - with Sodium	P		
H-1	180-3644-U-1	Voa Vial 40ml - with Sodium	1		
H-1	180-3644-V-1	Voa Vial 40ml - with Sulfuric Acid	1		
H-1	180-3644-W-1	Voa Vial 40ml - with Sulfuric Acid	1		
FH-1	180-3644-A-2	Plastic 1 liter - unpreserved			
FH-1	180-3644-B-2	Amber Glass 1 liter - Hydrochloric	2		
FH-1	180-3644-C-2	Amber Glass 1 liter - Hydrochloric	2		
FH-1	180-3644-D-2	Amber Glass 1 liter - Sulfuric Acid	2		
FH-1	180-3644-E-2	Amber Glass 1 liter - Sulfuric Acid	2		
FH-1	180-3644-F-2	Amber Glass 1 liter - unpreserved			
FH-1	180-3644-G-2	Amber Glass 1 liter - unpreserved			
FH-1	180-3644-H-2	Plastic 500ml - with Nitric Acid	2		
FH-1	180-3644-I-2	Plastic 500ml - unpreserved			
FH-1	180-3644-J-2	Plastic 250ml - with Sulfuric Acid	2		
FH-1	180-3644-K-2	Voa Vial 40ml - unpreserved			
FH-1	180-3644-L-2	Voa Vial 40ml - unpreserved			
FH-1	180-3644-M-2	Voa Vial 40ml - unpreserved			

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>	<u>Preservative</u>	
			pH	Added (mls)	Lot #
FH-1	180-3644-N-2	Voa Vial 40ml - Hydrochloric Acid	P		
FH-1	180-3644-O-2	Voa Vial 40ml - Hydrochloric Acid			
FH-1	180-3644-P-2	Voa Vial 40ml - Hydrochloric Acid			
FH-1	180-3644-Q-2	Voa Vial 40ml - Hydrochloric Acid			
FH-1	180-3644-R-2	Voa Vial 40ml - Hydrochloric Acid			
FH-1	180-3644-S-2	Voa Vial 40ml - Hydrochloric Acid			
FH-1	180-3644-T-2	Voa Vial 40ml - with Sodium			
FH-1	180-3644-U-2	Voa Vial 40ml - with Sodium			
FH-1	180-3644-V-2	Voa Vial 40ml - with Sulfuric Acid			
FH-1	180-3644-W-2	Voa Vial 40ml - with Sulfuric Acid	D		
FPT-1	180-3644-A-3	Plastic 1 liter - unpreserved			
FPT-1	180-3644-B-3	Amber Glass 1 liter - Hydrochloric	2		
FPT-1	180-3644-C-3	Amber Glass 1 liter - Hydrochloric	2		
FPT-1	180-3644-D-3	Amber Glass 1 liter - Sulfuric Acid	2		
FPT-1	180-3644-F-3	Amber Glass 1 liter - ^{Sulfuric Acid} unpreserved	2		
FPT-1	180-3644-G-3	Amber Glass 1 liter - unpreserved			
FPT-1	180-3644-H-3	Plastic 500ml - with Nitric Acid	2		
FPT-1	180-3644-I-3	Plastic 500ml - unpreserved			
FPT-1	180-3644-J-3	Plastic 250ml - with Sulfuric Acid	2		
FPT-1	180-3644-K-3	Voa Vial 40ml - unpreserved			
FPT-1	180-3644-L-3	Voa Vial 40ml - unpreserved			
FPT-1	180-3644-M-3	Voa Vial 40ml - unpreserved			
FPT-1	180-3644-N-3	Voa Vial 40ml - Hydrochloric Acid	P		
FPT-1	180-3644-O-3	Voa Vial 40ml - Hydrochloric Acid			
FPT-1	180-3644-P-3	Voa Vial 40ml - Hydrochloric Acid			
FPT-1	180-3644-Q-3	Voa Vial 40ml - Hydrochloric Acid			
FPT-1	180-3644-R-3	Voa Vial 40ml - Hydrochloric Acid			
FPT-1	180-3644-S-3	Voa Vial 40ml - Hydrochloric Acid			
FPT-1	180-3644-T-3	Voa Vial 40ml - with Sodium			
FPT-1	180-3644-U-3	Voa Vial 40ml - with Sodium			
FPT-1	180-3644-V-3	Voa Vial 40ml - with Sulfuric Acid			
FPT-1	180-3644-W-3	Voa Vial 40ml - with Sulfuric Acid	C		
S-1	180-3644-A-4	Plastic 1 liter - unpreserved			
S-1	180-3644-B-4	Amber Glass 1 liter - Hydrochloric	2		
S-1	180-3644-C-4	Amber Glass 1 liter - Hydrochloric	2		
S-1	180-3644-D-4	Amber Glass 1 liter - Sulfuric Acid	2		
S-1	180-3644-E-4	Amber Glass 1 liter - Sulfuric Acid	2		
S-1	180-3644-F-4	Amber Glass 1 liter - unpreserved			
S-1	180-3644-G-4	Amber Glass 1 liter - unpreserved			

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Preservative Added (mls)</u>	<u>Lot #</u>
S-1	180-3644-H-4	Plastic 500ml - with Nitric Acid	2		
S-1	180-3644-I-4	Plastic 500ml - unpreserved	2		
S-1	180-3644-J-4	Plastic 250ml - with Sulfuric Acid	2		
S-1	180-3644-K-4	Voa Vial 40ml - unpreserved	1		
S-1	180-3644-L-4	Voa Vial 40ml - unpreserved	1		
S-1	180-3644-M-4	Voa Vial 40ml - unpreserved	1		
S-1	180-3644-N-4	Voa Vial 40ml - Hydrochloric Acid	1		
S-1	180-3644-O-4	Voa Vial 40ml - Hydrochloric Acid	1		
S-1	180-3644-P-4	Voa Vial 40ml - Hydrochloric Acid	1		
S-1	180-3644-Q-4	Voa Vial 40ml - Hydrochloric Acid	1		
S-1	180-3644-R-4	Voa Vial 40ml - Hydrochloric Acid	1		
S-1	180-3644-S-4	Voa Vial 40ml - Hydrochloric Acid	1		
S-1	180-3644-T-4	Voa Vial 40ml - with Sodium	1		
S-1	180-3644-U-4	Voa Vial 40ml - with Sodium	1		
S-1	180-3644-V-4	Voa Vial 40ml - with Sulfuric Acid	1		
S-1	180-3644-W-4	Voa Vial 40ml - with Sulfuric Acid	1		
R-1	180-3644-A-5	Plastic 1 liter - unpreserved	1		
R-1	180-3644-B-5	Amber Glass 1 liter - Hydrochloric	2		
R-1	180-3644-C-5	Amber Glass 1 liter - Hydrochloric	2		
R-1	180-3644-D-5	Amber Glass 1 liter - unpreserved	1		
R-1	180-3644-E-5	Amber Glass 1 liter - unpreserved	1		
R-1	180-3644-F-5	Amber Glass 1 liter - unpreserved	1		
R-1	180-3644-G-5	Amber Glass 1 liter - unpreserved	1		
R-1	180-3644-H-5	Plastic 500ml - with Nitric Acid	2		
R-1	180-3644-I-5	Plastic 500ml - unpreserved	1		
R-1	180-3644-J-5	Plastic 250ml - with Sulfuric Acid	2		
R-1	180-3644-K-5	Voa Vial 40ml - unpreserved	1		
R-1	180-3644-L-5	Voa Vial 40ml - unpreserved	1		
R-1	180-3644-M-5	Voa Vial 40ml - unpreserved	1		
R-1	180-3644-N-5	Voa Vial 40ml - Hydrochloric Acid	1		
R-1	180-3644-O-5	Voa Vial 40ml - Hydrochloric Acid	1		
R-1	180-3644-P-5	Voa Vial 40ml - Hydrochloric Acid	1		
R-1	180-3644-Q-5	Voa Vial 40ml - Hydrochloric Acid	1		
R-1	180-3644-R-5	Voa Vial 40ml - Hydrochloric Acid	1		
R-1	180-3644-S-5	Voa Vial 40ml - Hydrochloric Acid	1		
R-1	180-3644-T-5	Voa Vial 40ml - Hydrochloric Acid	1		
R-1	180-3644-U-5	Voa Vial 40ml - Hydrochloric Acid	1		
R-1	180-3644-V-5	Voa Vial 40ml - with Sulfuric Acid	1		
R-1	180-3644-W-5	Voa Vial 40ml - with Sulfuric Acid	1		

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>	<u>pH</u>	<u>Preservative</u>	<u>Added (mls)</u>	<u>Lot #</u>
R-2	180-3644-A-6	Plastic 1 liter - unpreserved					
R-2	180-3644-B-6	Amber Glass 1 liter - Hydrochloric	2				
R-2	180-3644-C-6	Amber Glass 1 liter - Hydrochloric	2				
R-2	180-3644-D-6	Amber Glass 1 liter - Sulfuric Acid	2				
R-2	180-3644-E-6	Amber Glass 1 liter - Sulfuric Acid	2				
R-2	180-3644-F-6	Amber Glass 1 liter - unpreserved					
R-2	180-3644-G-6	Amber Glass 1 liter - unpreserved					
R-2	180-3644-H-6	Plastic 500ml - with Nitric Acid	2				
R-2	180-3644-I-6	Plastic 500ml - unpreserved					
R-2	180-3644-J-6	Plastic 250ml - with Sulfuric Acid	2				
R-2	180-3644-K-6	Voa Vial 40ml - unpreserved					
R-2	180-3644-L-6	Voa Vial 40ml - unpreserved					
R-2	180-3644-M-6	Voa Vial 40ml - unpreserved					
R-2	180-3644-N-6	Voa Vial 40ml - Hydrochloric Acid	P				
R-2	180-3644-O-6	Voa Vial 40ml - Hydrochloric Acid					
R-2	180-3644-P-6	Voa Vial 40ml - Hydrochloric Acid					
R-2	180-3644-Q-6	Voa Vial 40ml - Hydrochloric Acid					
R-2	180-3644-R-6	Voa Vial 40ml - Hydrochloric Acid					
R-2	180-3644-S-6	Voa Vial 40ml - Hydrochloric Acid					
R-2	180-3644-T-6	Voa Vial 40ml - Hydrochloric Acid					
R-2	180-3644-U-6	Voa Vial 40ml - Hydrochloric Acid					
R-2	180-3644-V-6	Voa Vial 40ml - with Sulfuric Acid					
R-2	180-3644-W-6	Voa Vial 40ml - with Sulfuric Acid	↓				
RD-1	180-3644-A-7	Plastic 1 liter - unpreserved					
RD-1	180-3644-B-7	Amber Glass 1 liter - Hydrochloric	2				
RD-1	180-3644-D-7	Amber Glass 1 liter - Sulfuric Acid	2				
RD-1	180-3644-E-7	Amber Glass 1 liter - Sulfuric Acid	2				
RD-1	180-3644-F-7	Amber Glass 1 liter - unpreserved					
RD-1	180-3644-G-7	Amber Glass 1 liter - unpreserved					
RD-1	180-3644-H-7	Plastic 500ml - with Nitric Acid	2				
RD-1	180-3644-I-7	Plastic 500ml - unpreserved					
RD-1	180-3644-J-7	Plastic 250ml - with Sulfuric Acid	2				
RD-1	180-3644-K-7	Voa Vial 40ml - unpreserved					
RD-1	180-3644-L-7	Voa Vial 40ml - unpreserved					
RD-1	180-3644-M-7	Voa Vial 40ml - unpreserved					
RD-1	180-3644-N-7	Voa Vial 40ml - Hydrochloric Acid	P				
RD-1	180-3644-O-7	Voa Vial 40ml - Hydrochloric Acid					
RD-1	180-3644-P-7	Voa Vial 40ml - Hydrochloric Acid					
RD-1	180-3644-Q-7	Voa Vial 40ml - Hydrochloric Acid	↓				

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>	<u>Preservative</u>	
			pH	Added (mls)	Lot #
RD-1	180-3644-R-7	Voa Vial 40ml - Hydrochloric Acid	P		
RD-1	180-3644-S-7	Voa Vial 40ml - Hydrochloric Acid			
RD-1	180-3644-T-7	Voa Vial 40ml - with Sodium			
RD-1	180-3644-U-7	Voa Vial 40ml - with Sodium			
RD-1	180-3644-V-7	Voa Vial 40ml - with Sulfuric Acid			
RD-1	180-3644-W-7	Voa Vial 40ml - with Sulfuric Acid	V		
RV-1	180-3644-A-8	Plastic 1 liter - unpreserved			
RV-1	180-3644-B-8	Amber Glass 1 liter - Hydrochloric	Z		
RV-1	180-3644-C-8	Amber Glass 1 liter - Hydrochloric	Z		
RV-1	180-3644-D-8	Amber Glass 1 liter - Sulfuric Acid	Z		
RV-1	180-3644-E-8	Amber Glass 1 liter - Sulfuric Acid	Z		
RV-1	180-3644-F-8	Amber Glass 1 liter - unpreserved	Z		
RV-1	180-3644-G-8	Amber Glass 1 liter - unpreserved	Z		
RV-1	180-3644-H-8	Plastic 500ml - with Nitric Acid	Z		
RV-1	180-3644-I-8	Plastic 500ml - unpreserved			
RV-1	180-3644-J-8	Plastic 250ml - with Sulfuric Acid	Z		
RV-1	180-3644-K-8	Voa Vial 40ml - unpreserved			
RV-1	180-3644-L-8	Voa Vial 40ml - unpreserved			
RV-1	180-3644-M-8	Voa Vial 40ml - unpreserved			
RV-1	180-3644-N-8	Voa Vial 40ml - Hydrochloric Acid	P		
RV-1	180-3644-O-8	Voa Vial 40ml - Hydrochloric Acid			
RV-1	180-3644-P-8	Voa Vial 40ml - Hydrochloric Acid			
RV-1	180-3644-Q-8	Voa Vial 40ml - Hydrochloric Acid			
RV-1	180-3644-R-8	Voa Vial 40ml - Hydrochloric Acid			
RV-1	180-3644-S-8	Voa Vial 40ml - Hydrochloric Acid			
RV-1	180-3644-T-8	Voa Vial 40ml - with Sodium			
RV-1	180-3644-U-8	Voa Vial 40ml - with Sodium			
RV-1	180-3644-V-8	Voa Vial 40ml - with Sulfuric Acid			
RV-1	180-3644-W-8	Voa Vial 40ml - with Sulfuric Acid	V		
KDE-1	180-3644-A-9	Plastic 1 liter - unpreserved			
KDE-1	180-3644-B-9	Amber Glass 1 liter - Hydrochloric	Z		
KDE-1	180-3644-C-9	Amber Glass 1 liter - Hydrochloric	Z		
KDE-1	180-3644-D-9	Amber Glass 1 liter - unpreserved			
KDE-1	180-3644-E-9	Amber Glass 1 liter - unpreserved			
KDE-1	180-3644-F-9	Amber Glass 1 liter - unpreserved			
KDE-1	180-3644-G-9	Amber Glass 1 liter - unpreserved			
KDE-1	180-3644-H-9	Plastic 500ml - with Nitric Acid	Z		
KDE-1	180-3644-I-9	Plastic 500ml - unpreserved			
KDE-1	180-3644-J-9	Plastic 250ml - with Sulfuric Acid	Z		

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Preservative Added (mls)</u>	<u>Lot #</u>
KDE-1	180-3644-K-9	Voa Vial 40ml - unpreserved			
KDE-1	180-3644-L-9	Voa Vial 40ml - unpreserved			
KDE-1	180-3644-M-9	Voa Vial 40ml - unpreserved			
KDE-1	180-3644-N-9	Voa Vial 40ml - Hydrochloric Acid	P		
KDE-1	180-3644-O-9	Voa Vial 40ml - Hydrochloric Acid			
KDE-1	180-3644-P-9	Voa Vial 40ml - Hydrochloric Acid			
KDE-1	180-3644-Q-9	Voa Vial 40ml - Hydrochloric Acid			
KDE-1	180-3644-R-9	Voa Vial 40ml - Hydrochloric Acid			
KDE-1	180-3644-S-9	Voa Vial 40ml - Hydrochloric Acid			
KDE-1	180-3644-T-9	Voa Vial 40ml - Hydrochloric Acid			
KDE-1	180-3644-U-9	Voa Vial 40ml - Hydrochloric Acid			
KDE-1	180-3644-V-9	Voa Vial 40ml - with Sulfuric Acid			
KDE-1	180-3644-W-9	Voa Vial 40ml - with Sulfuric Acid			
N-1	180-3644-A-10	Plastic 1 liter - unpreserved			
N-1	180-3644-B-10	Amber Glass 1 liter - Hydrochloric	2		
N-1	180-3644-C-10	Amber Glass 1 liter - Hydrochloric	2		
N-1	180-3644-D-10	Amber Glass 1 liter - unpreserved			
N-1	180-3644-E-10	Amber Glass 1 liter - unpreserved			
N-1	180-3644-F-10	Amber Glass 1 liter - unpreserved			
N-1	180-3644-G-10	Amber Glass 1 liter - unpreserved			
N-1	180-3644-H-10	Plastic 500ml - with Nitric Acid	2		
N-1	180-3644-I-10	Plastic 500ml - unpreserved	2		
N-1	180-3644-J-10	Plastic 250ml - with Sulfuric Acid	2		
N-1	180-3644-K-10	Voa Vial 40ml - unpreserved			
N-1	180-3644-L-10	Voa Vial 40ml - unpreserved			
N-1	180-3644-M-10	Voa Vial 40ml - unpreserved			
N-1	180-3644-N-10	Voa Vial 40ml - Hydrochloric Acid	P		
N-1	180-3644-O-10	Voa Vial 40ml - Hydrochloric Acid	1		
N-1	180-3644-P-10	Voa Vial 40ml - Hydrochloric Acid			
N-1	180-3644-Q-10	Voa Vial 40ml - Hydrochloric Acid			
N-1	180-3644-R-10	Voa Vial 40ml - Hydrochloric Acid			
N-1	180-3644-S-10	Voa Vial 40ml - Hydrochloric Acid			
N-1	180-3644-T-10	Voa Vial 40ml - with Sodium	0133440IV		
N-1	180-3644-U-10	Voa Vial 40ml - with Sodium	0133440W		
N-1	180-3644-V-10	Voa Vial 40ml - with Sulfuric Acid			
N-1	180-3644-W-10	Voa Vial 40ml - with Sulfuric Acid			
D-1	180-3644-A-11	Plastic 1 liter - unpreserved	2		
D-1	180-3644-B-11	Amber Glass 1 liter - Hydrochloric	2		
D-1	180-3644-C-11	Amber Glass 1 liter - Hydrochloric	2		

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>	<u>Preservative</u>	
			pH	Added (mls)	Lot #
D-1	180-3644-D-11	Amber Glass 1 liter - Sulfuric Acid	2		
D-1	180-3644-E-11	Amber Glass 1 liter - unpreserved			
D-1	180-3644-F-11	Amber Glass 1 liter - unpreserved			
D-1	180-3644-G-11	Amber Glass 1 liter - unpreserved			
D-1	180-3644-H-11	Plastic 500ml - with Nitric Acid	2		
D-1	180-3644-I-11	Plastic 500ml - unpreserved			
D-1	180-3644-J-11	Plastic 250ml - with Sulfuric Acid	2		
D-1	180-3644-K-11	Voa Vial 40ml - unpreserved			
D-1	180-3644-L-11	Voa Vial 40ml - unpreserved			
D-1	180-3644-M-11	Voa Vial 40ml - unpreserved			
D-1	180-3644-N-11	Voa Vial 40ml - Hydrochloric Acid	P		
D-1	180-3644-O-11	Voa Vial 40ml - Hydrochloric Acid			
D-1	180-3644-P-11	Voa Vial 40ml - Hydrochloric Acid			
D-1	180-3644-Q-11	Voa Vial 40ml - Hydrochloric Acid			
D-1	180-3644-R-11	Voa Vial 40ml - Hydrochloric Acid			
D-1	180-3644-S-11	Voa Vial 40ml - Hydrochloric Acid			
D-1	180-3644-T-11	Voa Vial 40ml - with Sodium	0133440W		
D-1	180-3644-U-11	Voa Vial 40ml - with Sodium	0133440W		
D-1	180-3644-V-11	Voa Vial 40ml - with Sulfuric Acid	5R0032-11		
D-1	180-3644-W-11	Voa Vial 40ml - with Sulfuric Acid	5R0032-11		
TRIP BLANK	180-3644-A-12	Voa Vial 40ml - Hydrochloric Acid			
TRIP BLANK	180-3644-B-12	Voa Vial 40ml - Hydrochloric Acid			
TRIP BLANK	180-3644-C-12	Voa Vial 40ml - Hydrochloric Acid	2		

Appendix D

Laboratory Case Narrative

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 180-3644-1

Job Description: Focused Site Assessment

For:

URS Corporation

Foster Plaza 4

501 Holiday Drive, Suite 300

Pittsburgh, PA 15220

Attention: Mr. James Pinta, Jr.



Approved for release.
Carrie L. Gamber
Project Manager II
10/5/2011 2:09 PM

Carrie L Gamber
Project Manager II
carrie.gamber@testamericainc.com
10/05/2011

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager or designee who has signed this report.

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238
Tel (412) 963-7058 Fax (412) 963-2468 www.testamericainc.com

CASE NARRATIVE

Client: URS Corporation

Project: Focused Site Assessment

Report Number: 180-3644-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 09/06/2011; the samples arrived in good condition, properly preserved and on ice.

The laboratory received a broken 1-liter bottle for sample FPT-1 (180-3644-3).

The laboratory did not receive sulfuric acid preserved vials for samples FPT-1 (180-3644-3) and D-1 (180-3644-11). An aliquot was taken from an un-preserved 1-liter amber glass bottle and preserved for TOC.

No Sodium thiosulfate vials were received for samples FPT-1 (180-3644-3), D-1 (180-3644-11), and N-1 (180-3644-10). An aliquot was taken from an un-preserved 1-liter amber glass bottle and preserved for method 8011.

The DRO volume for sample FPT-1 (180-3644-3) was received in a 1l-liter plastic container.

LOW LEVEL VOLATILE ORGANIC COMPOUNDS

Chloroform, Naphthalene and Toluene were detected in method blank MB 180-14017/3 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

8011 GAS CHROMATOGRAPHY

No difficulties were encountered during the EDB analyses.

SEMICVOLATILE ORGANIC COMPOUNDS (GC-MS)

No difficulties were encountered during the semivolatiles analyses.

GAS RANGE ORGANICS

GRO (C6-C10) was detected in method blank MB 480-30437/3 at a level that was above the method detection limit but below the reporting limit. The value should be considered estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

DISSOLVED GASES

Due to the concentration of target compounds detected, samples H-1 (180-3644-1)[1000X], FH-1 (180-3644-2)[20X], R-1 (180-3644-5)[1000X], R-1 (180-3644-5)[200X], R-2 (180-3644-6)[100X], R-2 (180-3644-6)[1000X] and KDE-1 (180-3644-9)[10X] were analyzed at a dilution. The reporting limits have been adjusted accordingly.

GLYCOLS

The matrix spike and matrix spike duplicate of sample H-1 (180-3644-1) recovered outside of the control limits for Triethylene Glycol.

DIESEL RANGE ORGANICS

No difficulties were encountered during the DRO analyses.

METALS

The serial dilution of sample H-1 (180-3644-1) was outside of the percent difference control limits for several metals.

The method blanks had analytes detected at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

The sodium concentrations found in the continuing calibration blanks three thru eight (CCB3 thru CCB8) were greater than the reporting limit (100ug/l) All associated samples bracketed by these CCB's had sodium concentrations at least 100x greater than the CCB concentrations. The CCB concentrations were more than likely caused by "memory effect" and no positive bias in the results is suspected

The manganese concentrations found in the continuing calibration blanks five, seven and eight (CCB5, CCB7 and CCB8) were greater than the reporting limit (0.5ug/l). All associated samples bracketed by these CCB's had manganese concentrations at least 10x greater than the CCB concentrations. The CCB concentrations were more than likely caused by "memory effect" and no positive bias in the results is suspected.

GENERAL CHEMISTRY

pH is a field parameter. Laboratory pH analysis was completed at the request of the client.

The samples were analyzed outside of the holding time for MBAS.

Due to the matrix, the initial volume used for the following sample deviated from the standard procedure for method 2540D: S-1 (180-3644-4). The reporting limits (RLs) have been adjusted proportionately.

The method blanks had analytes detected at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

DIM0283611

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-3644-1

SDG No.: _____

Instrument ID: HP7

Analysis Batch Number: 13618

Lab Sample ID: IC 180-13618/8

Client Sample ID: _____

Date Analyzed: 09/10/11 13:14

Lab File ID: 7091011.D

GC Column: DB-624

ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.78	Peak Integrated Incorrectly	lipayj	09/10/11 13:40
1,1-Dichloroethene	3.50	Peak Integrated Incorrectly	lipayj	09/10/11 13:40
Carbon disulfide	3.78	Peak Integrated Incorrectly	lipayj	09/10/11 13:40
Methyl acetate	4.14	Peak Integrated Incorrectly	lipayj	09/10/11 13:41
Bromodichloromethane	8.29	Peak Integrated Incorrectly	lipayj	09/10/11 13:40
1,1,2,2-Tetrachloroethane	11.77	Peak Integrated Incorrectly	lipayj	09/10/11 13:41

8260B

DIM0283650

DIM0283611

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica PittsburghJob No.: 180-3644-1

SDG No.: _____

Instrument ID: HP7 Analysis Batch Number: 14017Lab Sample ID: 180-3644-8 Client Sample ID: RU-1Date Analyzed: 09/14/11 15:10 Lab File ID: 70914016.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.59	Peak Integrated Incorrectly	lipayj	09/14/11 15:38

8260B

DIM0283611

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica PittsburghJob No.: 180-3644-1

SDG No.:

Instrument ID: 733Analysis Batch Number: 12725Lab Sample ID: IC 180-12725/2

Client Sample ID:

Date Analyzed: 09/01/11 04:55Lab File ID: N0901IC1.DGC Column: Rxi-5SilMSID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.47	Peak Not Found	piccolino v	09/01/11 05:42
Pyridine	2.07	Poor Chromatography	piccolino v	09/01/11 05:42
Benzidine	9.16	Peak Not Found	piccolino v	09/01/11 05:43
Bis(2-ethylhexyl) phthalate	10.17	Poor Chromatography	piccolino v	09/01/11 05:43
Di-n-octyl phthalate	10.75	Poor Chromatography	piccolino v	09/01/11 05:43
Benzo[a]pyrene	11.65	Poor Chromatography	piccolino v	09/01/11 05:43
Dibenz(a,h)anthracene	13.26	Poor Chromatography	piccolino v	09/01/11 05:43
Indeno[1,2,3-cd]pyrene	13.26	Poor Chromatography	piccolino v	09/01/11 05:43
Benzo[g,h,i]perylene	13.71	Poor Chromatography	piccolino v	09/01/11 05:43

8270C LL

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica PittsburghJob No.: 180-3644-1

SDG No.: _____

Instrument ID: 733Analysis Batch Number: 12725Lab Sample ID: IC 180-12725/3

Client Sample ID: _____

Date Analyzed: 09/01/11 05:18Lab File ID: N0901IC2.D

GC Column:

Rxi-5SilMSID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.51	Poor Chromatography	piccolino v	09/01/11 05:43
Pyridine	2.06	Poor Chromatography	piccolino v	09/01/11 05:43
Benzoic acid	5.35	Poor Chromatography	piccolino v	09/01/11 05:44
2,3,4,6-Tetrachlorophenol	7.20	Poor Chromatography	piccolino v	09/01/11 05:44
Anthracene	8.16	Poor Chromatography	piccolino v	09/01/11 05:45
Benzidine	9.14	Poor Chromatography	piccolino v	09/01/11 05:45
Di-n-octyl phthalate	10.72	Poor Chromatography	piccolino v	09/01/11 05:45
Benzo[a]pyrene	11.61	Poor Chromatography	piccolino v	09/01/11 05:45
Indeno[1,2,3-cd]pyrene	13.21	Poor Chromatography	piccolino v	09/01/11 05:45
Dibenz(a,h)anthracene	13.22	Poor Chromatography	piccolino v	09/01/11 05:45
Benzo[g,h,i]perylene	13.67	Poor Chromatography	piccolino v	09/01/11 05:45

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-3644-1

SDG No.: _____

Instrument ID: 733 Analysis Batch Number: 12725

Lab Sample ID: ICIS 180-12725/4 Client Sample ID: _____

Date Analyzed: 09/01/11 05:41 Lab File ID: N0901IC3.D GC Column: RxI-5SilMS

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzidine	9.14	Poor Chromatography	piccolino v	09/01/11 06:12
Di-n-octyl phthalate	10.72	Poor Chromatography	piccolino v	09/01/11 06:12
Benzo[a]pyrene	11.61	Poor Chromatography	piccolino v	09/01/11 06:12
Indeno[1,2,3-cd]pyrene	13.22	Poor Chromatography	piccolino v	09/01/11 06:13
Dibenz(a,h)anthracene	13.23	Poor Chromatography	piccolino v	09/01/11 06:13
Benzo[g,h,i]perylene	13.67	Poor Chromatography	piccolino v	09/01/11 06:13

Lab Sample ID: IC 180-12725/7 Client Sample ID: _____

Date Analyzed: 09/01/11 06:50 Lab File ID: N0901IC6.D GC Column: RxI-5SilMS

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	5.39	Poor Chromatography	piccolino v	09/01/11 07:17

Lab Sample ID: IC 180-12725/8 Client Sample ID: _____

Date Analyzed: 09/01/11 07:14 Lab File ID: N0901IC7.D GC Column: RxI-5SilMS

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Caprolactam	5.91	Peak Not Found	piccolino v	09/01/11 07:44

8270C LL

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica PittsburghJob No.: 180-3644-1

SDG No.: _____

Instrument ID: 733 Analysis Batch Number: 13573Lab Sample ID: LCS 180-13271/2-A Client Sample ID: _____Date Analyzed: 09/09/11 17:42 Lab File ID: N0909017.DGC Column: Rxi-5SilMS ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	5.33	Poor Chromatography	piccolino v	09/10/11 02:37

8270C LL

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-3644-1

SDG No.:

Instrument ID: 733 Analysis Batch Number: 13655

Lab Sample ID: CCVIS 180-13655/32 Client Sample ID:

Date Analyzed: 09/10/11 07:16 Lab File ID: N0910CC2.D GC Column: RxI-5SilMS ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Pyridine	1.92	Poor Chromatography	piccolino v	09/12/11 07:04

8270C LL

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-3644-1

SDG No.:

Instrument ID: GC12

Analysis Batch Number: 14203

Lab Sample ID: IC 180-13076/1-A

Client Sample ID:

Date Analyzed: 09/06/11 05:43

Lab File ID: X0910018.D

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane (EDB)	5.77	Poor Chromatography	derubeisj	09/07/11 13:02
1,1,1,2-Tetrachloroethane	6.24	Poor Chromatography	derubeisj	09/07/11 13:02
1,2-Dibromo-3-Chloropropane	9.96	Poor Chromatography	eppinged	09/06/11 10:18

Lab Sample ID: IC 180-13076/2-A

Client Sample ID:

Date Analyzed: 09/06/11 06:12

Lab File ID: X0910019.D

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane (EDB)	5.77	Poor Chromatography	derubeisj	09/07/11 13:03
1,2-Dibromo-3-Chloropropane	9.96	Poor Chromatography	eppinged	09/06/11 10:19

Lab Sample ID: IC 180-13076/3-A

Client Sample ID:

Date Analyzed: 09/06/11 06:41

Lab File ID: X0910020.D

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane (EDB)	5.77	Poor Chromatography	derubeisj	09/07/11 13:05
1,2-Dibromo-3-Chloropropane	9.96	Poor Chromatography	eppinged	09/06/11 10:19

Lab Sample ID: ICRT 180-13076/4-A

Client Sample ID:

Date Analyzed: 09/06/11 07:11

Lab File ID: X0910021.D

GC Column: RTX-1701 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane (EDB)	5.76	Poor Chromatography	derubeisj	09/07/11 13:05
1,2-Dibromo-3-Chloropropane	9.96	Poor Chromatography	derubeisj	09/07/11 13:06

8011

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica PittsburghJob No.: 180-3644-1

SDG No.:

Instrument ID: GC12Analysis Batch Number: 14203Lab Sample ID: IC 180-13076/5-A

Client Sample ID:

Date Analyzed: 09/06/11 07:40Lab File ID: X0910022.DGC Column: RTX-1701ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane (EDB)	5.77	Poor Chromatography	derubeisj	09/07/11 13:07
1,2-Dibromo-3-Chloropropane	9.96	Poor Chromatography	eppinged	09/06/11 10:20

Lab Sample ID: IC 180-13076/6-A

Client Sample ID:

Date Analyzed: 09/06/11 08:09Lab File ID: X0910023.DGC Column: RTX-1701ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromoethane (EDB)	5.77	Poor Chromatography	derubeisj	09/07/11 13:07
1,2-Dibromo-3-Chloropropane	9.96	Poor Chromatography	eppinged	09/06/11 10:20

8011

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica PittsburghJob No.: 180-3644-1

SDG No.: _____

Instrument ID: GC12 Analysis Batch Number: 14489Lab Sample ID: IC 180-13076/1-A Client Sample ID: _____Date Analyzed: 09/09/11 11:53 Lab File ID: W0910124.D GC Column: Rxi-50ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromo-3-Chloropropane	10.61	Poor Chromatography	derubeisj	09/09/11 15:27

Lab Sample ID: ICRT 180-13076/4-A Client Sample ID: _____Date Analyzed: 09/09/11 13:21 Lab File ID: W0910127.D GC Column: Rxi-50ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromo-3-Chloropropane	10.61	Poor Chromatography	derubeisj	09/09/11 15:25

8011

GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-3644-1

SDG No.:

Instrument ID: ICS2000

Analysis Batch Number: 13149

Lab Sample ID: STD 180-13149/2 IC

Client Sample ID: _____

Date Analyzed: 09/01/11 18:16

Lab File ID: 0002.d GC Column: AS-18 ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.93	Baseline Event	waclaskil	09/02/11 11:33

Lab Sample ID: STD 180-13149/3 IC

Client Sample ID: _____

Date Analyzed: 09/01/11 18:29

Lab File ID: 0003.d GC Column: AS-18 ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.93	Baseline Event	waclaskil	09/02/11 11:32

Lab Sample ID: STD 180-13149/4 IC

Client Sample ID: _____

Date Analyzed: 09/01/11 18:43

Lab File ID: 0004.d GC Column: AS-18 ID: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluoride	3.93	Baseline Event	waclaskil	09/02/11 11:33

300.0

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo	Job No.: 180-3644-1															
SDG No.:																
Instrument ID: PE-01	Analysis Batch Number: 1254															
Lab Sample ID: STD1 480-1254/1 IC	Client Sample ID:															
Date Analyzed: 04/09/10 13:46	Lab File ID: PE01GLY007.d	GC Column: ZB-5	ID: 0.25 (mm)													
<table border="1"> <thead> <tr> <th rowspan="2">COMPOUND NAME</th> <th rowspan="2">RETENTION TIME</th> <th colspan="3">MANUAL INTEGRATION</th> </tr> <tr> <th>REASON</th> <th>ANALYST</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>Triethylene Glycol</td> <td>8.94</td> <td>Baseline Smoothing</td> <td>bescod</td> <td>11/30/10 13:26</td> </tr> </tbody> </table>				COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION			REASON	ANALYST	DATE	Triethylene Glycol	8.94	Baseline Smoothing	bescod	11/30/10 13:26
COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION														
		REASON	ANALYST	DATE												
Triethylene Glycol	8.94	Baseline Smoothing	bescod	11/30/10 13:26												
Lab Sample ID: STD2 480-1254/2 IC	Client Sample ID:															
Date Analyzed: 04/09/10 13:58	Lab File ID: PE01GLY008.d	GC Column: ZB-5	ID: 0.25 (mm)													
<table border="1"> <thead> <tr> <th rowspan="2">COMPOUND NAME</th> <th rowspan="2">RETENTION TIME</th> <th colspan="3">MANUAL INTEGRATION</th> </tr> <tr> <th>REASON</th> <th>ANALYST</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>Triethylene Glycol</td> <td>8.93</td> <td>Baseline Smoothing</td> <td>bescod</td> <td>11/30/10 13:27</td> </tr> </tbody> </table>				COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION			REASON	ANALYST	DATE	Triethylene Glycol	8.93	Baseline Smoothing	bescod	11/30/10 13:27
COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION														
		REASON	ANALYST	DATE												
Triethylene Glycol	8.93	Baseline Smoothing	bescod	11/30/10 13:27												
Lab Sample ID: STD3 480-1254/3 IC	Client Sample ID:															
Date Analyzed: 04/09/10 14:11	Lab File ID: PE01GLY009.d	GC Column: ZB-5	ID: 0.25 (mm)													
<table border="1"> <thead> <tr> <th rowspan="2">COMPOUND NAME</th> <th rowspan="2">RETENTION TIME</th> <th colspan="3">MANUAL INTEGRATION</th> </tr> <tr> <th>REASON</th> <th>ANALYST</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>Triethylene Glycol</td> <td>8.93</td> <td>Baseline Smoothing</td> <td>bescod</td> <td>11/30/10 13:28</td> </tr> </tbody> </table>				COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION			REASON	ANALYST	DATE	Triethylene Glycol	8.93	Baseline Smoothing	bescod	11/30/10 13:28
COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION														
		REASON	ANALYST	DATE												
Triethylene Glycol	8.93	Baseline Smoothing	bescod	11/30/10 13:28												
Lab Sample ID: STD4 480-1254/4 IC	Client Sample ID:															
Date Analyzed: 04/09/10 14:24	Lab File ID: PE01GLY010.d	GC Column: ZB-5	ID: 0.25 (mm)													
<table border="1"> <thead> <tr> <th rowspan="2">COMPOUND NAME</th> <th rowspan="2">RETENTION TIME</th> <th colspan="3">MANUAL INTEGRATION</th> </tr> <tr> <th>REASON</th> <th>ANALYST</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>Triethylene Glycol</td> <td>8.93</td> <td>Shouldering</td> <td>bescod</td> <td>11/30/10 13:29</td> </tr> </tbody> </table>				COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION			REASON	ANALYST	DATE	Triethylene Glycol	8.93	Shouldering	bescod	11/30/10 13:29
COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION														
		REASON	ANALYST	DATE												
Triethylene Glycol	8.93	Shouldering	bescod	11/30/10 13:29												
Lab Sample ID: STD5 480-1254/5 IC	Client Sample ID:															
Date Analyzed: 04/09/10 14:36	Lab File ID: PE01GLY011.d	GC Column: ZB-5	ID: 0.25 (mm)													
<table border="1"> <thead> <tr> <th rowspan="2">COMPOUND NAME</th> <th rowspan="2">RETENTION TIME</th> <th colspan="3">MANUAL INTEGRATION</th> </tr> <tr> <th>REASON</th> <th>ANALYST</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>Triethylene Glycol</td> <td>8.93</td> <td>Shouldering</td> <td>bescod</td> <td>11/30/10 13:30</td> </tr> </tbody> </table>				COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION			REASON	ANALYST	DATE	Triethylene Glycol	8.93	Shouldering	bescod	11/30/10 13:30
COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION														
		REASON	ANALYST	DATE												
Triethylene Glycol	8.93	Shouldering	bescod	11/30/10 13:30												

8015B

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica BuffaloJob No.: 180-3644-1

SDG No.: _____

Instrument ID: PE-01 Analysis Batch Number: 1254Lab Sample ID: STD6 480-1254/6 IC Client Sample ID: _____Date Analyzed: 04/09/10 14:49 Lab File ID: PE01GLY012.d GC Column: ZB-5 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methoxyethanol	2.00	Baseline Smoothing	bescod	11/30/10 12:54
2-Ethoxyethanol	2.16	Baseline Smoothing	bescod	11/30/10 12:54
Propylene glycol	4.64	Baseline Smoothing	bescod	11/30/10 12:54
Ethylene glycol	4.90	Baseline Smoothing	bescod	11/30/10 12:54
1,4-Butanediol	6.99	Baseline Smoothing	bescod	11/30/10 12:54
2,2'-Oxybisethanol	7.34	Baseline Smoothing	bescod	11/30/10 12:54
Triethylene Glycol	8.94	Baseline Smoothing	bescod	11/30/10 12:54

8015B

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 180-3644-1

SDG No.: _____

Instrument ID: PE-01 Analysis Batch Number: 30801Lab Sample ID: 180-3644-1 Client Sample ID: H-1Date Analyzed: 09/12/11 11:49 Lab File ID: PE06160.dGC Column: ZB-5 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	8.88	Baseline Smoothing	NearyM	09/15/11 08:22

Lab Sample ID: 180-3644-2 Client Sample ID: FH-1Date Analyzed: 09/12/11 12:02 Lab File ID: PE06161.dGC Column: ZB-5 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	8.87	Baseline Smoothing	NearyM	09/15/11 08:23

Lab Sample ID: 180-3644-3 Client Sample ID: FPT-1Date Analyzed: 09/12/11 12:15 Lab File ID: PE06162.dGC Column: ZB-5 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	8.88	Baseline Smoothing	NearyM	09/15/11 08:24

Lab Sample ID: 180-3644-4 Client Sample ID: S-1Date Analyzed: 09/12/11 12:27 Lab File ID: PE06163.dGC Column: ZB-5 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	8.88	Baseline Smoothing	NearyM	09/15/11 08:25

Lab Sample ID: 180-3644-5 Client Sample ID: R-1Date Analyzed: 09/12/11 12:40 Lab File ID: PE06164.dGC Column: ZB-5 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	8.88	Baseline Smoothing	NearyM	09/15/11 08:25

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo

Job No.: 180-3644-1

SDG No.:

Instrument ID: PE-01

Analysis Batch Number: 30801

Lab Sample ID: 180-3644-6

Client Sample ID: R-2

Date Analyzed: 09/12/11 12:53

Lab File ID: PE06165.d

GC Column: ZB-5

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	8.87	Baseline Smoothing	NearyM	09/15/11 08:26

Lab Sample ID: 180-3644-7

Client Sample ID: RD-1

Date Analyzed: 09/12/11 13:06

Lab File ID: PE06166.d

GC Column: ZB-5

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	8.92	Baseline Smoothing	NearyM	09/15/11 08:26

Lab Sample ID: CCV 480-30801/15

Client Sample ID:

Date Analyzed: 09/12/11 13:18

Lab File ID: PE06167.d

GC Column: ZB-5

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	8.87	Baseline Smoothing	NearyM	09/15/11 08:28

Lab Sample ID: CCV 480-30801/23

Client Sample ID:

Date Analyzed: 09/13/11 12:10

Lab File ID: PE06175.d

GC Column: ZB-5

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	8.87	Baseline Smoothing	NearyM	09/14/11 07:10

Lab Sample ID: 180-3644-8

Client Sample ID: RU-1

Date Analyzed: 09/13/11 13:40

Lab File ID: PE06177.d

GC Column: ZB-5

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	8.91	Baseline Smoothing	NearyM	09/14/11 07:11

8015B

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo

Job No.: 180-3644-1

SDG No.:

Instrument ID: PE-01

Analysis Batch Number: 30801

Lab Sample ID: 180-3644-9

Client Sample ID: KDE-1

Date Analyzed: 09/13/11 14:14

Lab File ID: PE06179.d

GC Column: ZB-5

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	8.87	Baseline Smoothing	NearyM	09/13/11 14:32

Lab Sample ID: 180-3644-11

Client Sample ID: D-1

Date Analyzed: 09/13/11 14:40

Lab File ID: PE06181.d

GC Column: ZB-5

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	8.87	Baseline Smoothing	NearyM	09/13/11 15:10

Lab Sample ID: 180-3644-1 MS

Client Sample ID: H-1 MS

Date Analyzed: 09/13/11 14:52

Lab File ID: PE06182.d

GC Column: ZB-5

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	8.87	Baseline Smoothing	NearyM	09/14/11 07:13

Lab Sample ID: 180-3644-1 MSD

Client Sample ID: H-1 MSD

Date Analyzed: 09/13/11 15:05

Lab File ID: PE06183.d

GC Column: ZB-5

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	8.87	Baseline Smoothing	NearyM	09/14/11 07:13

Lab Sample ID: CCV 480-30801/33

Client Sample ID:

Date Analyzed: 09/13/11 15:31

Lab File ID: PE06185.d

GC Column: ZB-5

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Triethylene Glycol	8.86	Baseline Smoothing	NearyM	09/14/11 07:16

8015B

SAMPLE SUMMARY

Client: URS Corporation

Job Number: 180-3644-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
180-3644-1	H-1	Water	09/01/2011 1115	09/06/2011 0900
180-3644-2	FH-1	Water	09/01/2011 0840	09/06/2011 0900
180-3644-3	FPT-1	Water	09/01/2011 0935	09/06/2011 0900
180-3644-4	S-1	Water	09/01/2011 1015	09/06/2011 0900
180-3644-5	R-1	Water	09/01/2011 1320	09/06/2011 0900
180-3644-6	R-2	Water	09/01/2011 1340	09/06/2011 0900
180-3644-7	RD-1	Water	09/01/2011 1410	09/06/2011 0900
180-3644-8	RU-1	Water	09/01/2011 1445	09/06/2011 0900
180-3644-9	KDE-1	Water	09/01/2011 1535	09/06/2011 0900
180-3644-10	N-1	Water	09/01/2011 1745	09/06/2011 0900
180-3644-11	D-1	Water	09/01/2011 1815	09/06/2011 0900
180-3644-12	TRIP BLANK	Water	09/01/2011 0000	09/06/2011 0900